

Comparisons of Job Characteristics

Focus Occupation: [Security and Fire Alarm Systems Installers \(49-2098\)](#)

Associated Occupation: [Helpers--Electricians \(47-3013\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 67

Focus Occupation: Security and Fire Alarm Systems Installers (49-2098)

Associated Occupation: Helpers--Electricians (47-3013)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Building and Construction	4.0	14.8	9.3	<<	Extensive education and/or training may be required
Mechanical	6.8	13.4	9.8	<<	Extensive education and/or training may be required
Design	5.2	8.3	6.6	<	Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Security and Fire Alarm Systems Installers (49-2098)

Associated Occupation: Helpers--Electricians (47-3013)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	8.0	7.6	0	Current skill level may be sufficient
Repairing	3.4	7.6	7.6	0	Current skill level may be sufficient
Installation	1.7	5.7	8.7	>>	Skill level is likely more than sufficient
Equipment Selection	3.3	5.1	5.2	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Security and Fire Alarm Systems Installers (49-2098)**Associated Occupation: Helpers--Electricians (47-3013)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Manual Dexterity	6.5	13.0	8.8	<<	Extensive improvement in abilities may be required
Near Vision	11.1	12.9	10.8	<	Some improvement in abilities may be required
Extent Flexibility	4.8	12.2	7.8	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	10.0	6.9	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	10.0	9.5	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	9.2	5.5	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	8.0	5.6	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	7.4	4.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Security and Fire Alarm Systems Installers (49-2098)**Associated Occupation: Helpers--Electricians (47-3013)**

Work Activities	Exclusivity of Activity
Bend tubing or conduit	81
Distinguish colors	44
Install electrical conduit or tubing	81
Install/string electrical or electronic cable or wiring	76
Read blueprints	10
Read tape measure	41
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 74

Focus Occupation: Security and Fire Alarm Systems Installers (49-2098)
Associated Occupation: Helpers--Electricians (47-3013)

Tools and Technologies	Exclusivity
Aerial lifts	13
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Electrical measuring and testing equipment	7
Fastener setting tools	12
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Ladders and scaffolding	6
Measuring and layout tools	3
Power tools	2
Pulling tools	31
Soldering and brazing and welding machinery and supplies	6
Surveillance and detection equipment	11
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.